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CTR-133011

DISCIPLINE: ENVIRONMENT

TITLE: APPLICATION OF REMOTE SENSING
IN THE STUDY OF VEGETATION AND
SOILS IN IDAHO (MMC # 313-3)

PRINCIPAL INVESTIGATOR:

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SUMMARY: Emphasis has been on verification of inter-
pretation of autumnal imagery by ground truth inspection.
Aided by U.S. Geological maps to locate ourselves on the
ground because of insufficient resolution of ERTS imagery
to show secondary and unimproved roads, more than 100
locations were inspected and the vegetation/soil character-
istics documented during this report period. A major limita-
tion of autumnal imagery was the inconsistency with which
sagebrush dominated areas were distinguishable from adjacent
areas where the sagebrush had been removed by past fires
and/or insects and which are presently dominated by annual
vegetation. Both the sagebrush and annual vegetation are
dormant during the late summer and fall. cursory examina-
tion of spring imagery (April) shows additional detail for sage-
brush vegetation. Hopefully the May and June imagery will
show additional features of the vegetation not discernible in
autumn or early spring.

Although little difficulty was encountered in detection of
recent and well established rangeland seedlings, those that
have become reinvaded by sagebrush or were initially poorly
established and contain considerable amounts of annual vegeta-
tion were not consistently identified in autumn and early spring
imagery.

U-2 imagery was found to be highly useful in delineating vegeta-
tion. Spring and early summer imagery were found to be more
useful for vegetation interpretation than late fall imagery. In the
zeric sagebrush portion, "slick spot" soils were readily identi-
fiable. Minor roads and trails also showed well and helped
greatly with orientation on large range areas.

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